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[54] TELECOMMUNICATIONS SYSTEM HAVING
SEPARATE SWITCH INTELLIGENCE AND
SWITCH FABRIC[75] Inventors: Douglas Ross Cardy, Plano; Ken
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Washington, D.C.[*] Notice: This patent issued on a continued pro-
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1.53(d), and is subject to the twenty year
patent term provisions of 35 U.S.C.
154(a)(2).

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379/243[58] Field of Search 379/67, 88, 89,
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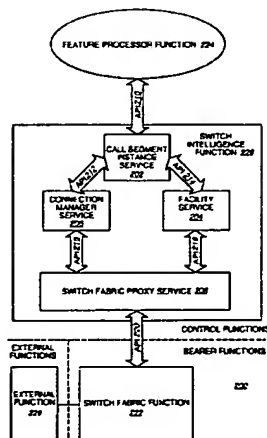
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[57] ABSTRACT

The present invention is a telecommunications system having separate switch fabric and switch intelligence. The system comprises a switch fabric, a switch intelligence, and a feature processor. The switch intelligence is logically separated from the switch fabric and comprises a switch fabric proxy, a facility service, a connection manager service, and a call segment instance service. The switch fabric proxy is coupled to the switch fabric via a vendor-specific first Application Programming Interface (API). The switch fabric proxy supports a second API, which is common across all vendors, representing functions supported by the switch fabric. A facility instance, which is instantiated by a facility service using a facility model, represents the bearer and signaling facilities of a party to a call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. The connection manager service represents the connectors for a party to a call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. A call segment instance, which is instantiated by a call segment instance service using a call model, represents the call logic and call data for a party to a call, and interacts with the connection manager service via a third API and with the facility instance via a fourth API. The feature processor interacts with the call segment instance via a fifth API to provide the telecommunications feature.

8 Claims, 5 Drawing Sheets



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